

13 November 1969

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MEMORANDUM FOR: [REDACTED]

SUBJECT : DoD Geodetic-Cartographic Target Materials Conference, 29 October to 5 November 1969, at Cameron Station, Alexandria, Virginia, and a Special Briefing at DIA Special Operations Center, Pentagon, 6 November 1969

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1. From the point of view of your interest in MC&G activities, I believe that you should be aware of the annual subject conferences that have been held over the past several years, in which the DIAMC senior officials have done their best to explain their management role and accompanying problems to representatives of the three Services and the attending representatives of the Unified and Specified Commands, as well as to Commands in the CONUS. Some of these representatives also participated actively by giving presentations. Attachment A is the unclassified agenda of the conference. [REDACTED] and I attended several of the sessions, most of which were SECRET.

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2. I do not want to bore you with a full run-down but some points may be of interest. First of all, over 700 technical and administrative/management personnel attended one or more of the many seminars and other sessions.

3. During the morning of 29 October several papers related in one way or another to the concept of an integrated data bank for MC&G and other terrain and geographic intelligence data. Considerable humor was introduced by mention that everyone had his own idea regarding what an integrated data bank should be but that no two people seemed to come out with the same answers.

DIA review(s) completed.

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It was agreed that a fully integrated, automated series of data banks responsive to the needs of all in the community would not be fully developed for several more years and that there is need for much more coordinated "thinking-through" of presently recognized and potential problems. User-oriented, quick reaction output was a dominant thought.

4. The session in the afternoon of 29 October was a disappointing and fragmented review of well-known uses of multispectral photography, but it illustrated the interest in this approach for study of environmental data of military significance. Mention was made of the advances in this work on the civilian side. [REDACTED] was emphasized as extremely useful.

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5. The session on overt satellite networks held during the afternoon of 30 October was very informative in describing the part each system played in world-wide geodetic work, but the extremely technical presentations, including many precise measurements of error within the various systems, impressed one with the diversity of problems encountered in the data reduction field.

6. As the opening speaker for the second part of the conference on 3 November, Rear Admiral Donald Showers, DIA Deputy Director for Plans and Programs, explained the position of Mr. Froelke as Assistant Secretary of Defense for Administration and Intelligence. He now has a staff of 14 civilian and military officers. He and his staff, in cooperation with all pertinent elements in the DoD, will develop a Consolidated Defense Intelligence Program, pulling together all DoD operational and support elements within the Department. This effort would be properly coordinated with other associated elements of the Governmental foreign intelligence agencies. DIA will continue to coordinate the MC&G aspects.

7. On 4 November, a representative of the Plans and Programs Office of DIAMC noted that the MC&G budget was being reduced by [REDACTED] that [REDACTED] slots were being lost, that for

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the old CIP there would be a reduction of 10 percent overseas, including a 5 to 10 percent reduction in over-all manpower. There has to be a major overhaul in planning--a team approach. There must be greater attention to priorities, an attempt to do away with any overlapping products or activities, a utilization of all resources to the maximum benefit of all concerned, and that technological developments must be expedited. All MC&G must be mission oriented; packaged; problem thresholds must be established; and consolidated guidance must prevail. Stretch-out will not solve the problem of reduced funds. He noted that there were map and chart exchange agreements between the DoD and foreign mapping agencies in 55 countries, cooperative agreements (with one or more U.S. personnel involved) with agencies in 50 countries, standardization agreements, facsimile chart reproduction agreements, and DoD overt geodetic satellite operational agreements with 39 countries.

8. In the afternoon of 3 November, there was a general run-down of the status of overt satellite geodetic work by the various agencies and associated discussions of other selected geodetic surveys (aerial and ground) which are currently in progress. Special mention was made of the so-called 12-degree baseline from Dakar to the eastern border of the Sudan. The [redacted] and the work is nearly complete. It is an important baseline for the WGS primary net. There was also considerable discussion of NAVOCEANO's bathymetric surveys of areas of interest to submarine activities.

9. During the morning of 5 November, there were some detailed presentations of close PI and photogrammetric support to military field units. However, the subsequent presentations of advanced cartographic systems, still largely conceptual, were most interesting. They involved digitized, analog, and manual-assisted input, selective input from data banks, automated data reduction and man-monitored compilation, and selected output responsive to consumer requirements.

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10. In the afternoon, there was a general round-up of the status and potential of all-weather mapping systems. In Phase I of the DoD Program, 60,000 square statute miles of Panama and Colombia are being mapped by [redacted] from conventional aircraft. Reflectors, placed by the InterAmerican Geodetic Survey, had assisted in control. Class B 1:250,000 maps are the goal. Phase II will use RC-130A aircraft at 30,000 feet, equipped with [redacted] with a swath width of five nautical miles and a resolution of ten feet. The goal here will be Class A 1:250,000 maps. Collection will begin in CY 1972. Phase III will involve a [redacted] giving two metre ground resolution and permit production of [redacted]. Here the goal is for 1:50,000 maps. The cost is estimated at [redacted] to obtain map coverage of 6.8 million square statute miles for medium-scale and 1.7 million square statute miles for large-scale maps for the bad weather areas. The presentation was at SECRET level and did not reflect the total thinking of the MC&G people working at the T-KH level.

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11. During the morning of 6 November, a T-KH briefing was held in the Special Operations Center of DIA. Most of the attendees were from CONUS and overseas Commands. They were either being brought up to date or receiving their first over-all orientation of the MC&G activities and prospects in the use of photography from covert reconnaissance satellites. [redacted] presented an excellent and well-organized briefing for those not intimately involved in the over-all picture. [redacted] of DIA explained the current status of and problems associated with the use of this satellite photography for tightening the world-wide geodetic positioning accuracies for targeting and for refining the World Geodetic System (WGS).

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12. [redacted] noted that the KH-4B with the DISIC/Doppler beacon has a good chance of providing data for geodetic positioning accuracies of 300 feet horizontal and 250 feet

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vertical with 90 percent assurance.

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13. [] pointed out that MC&G management problems in the use of KH photography involved:

- a. re-evaluation of production capabilities;
- b. high investment in equipment and personnel;
- c. changing degree of international involvement in mapping foreign areas; and
- d. current economy moves.

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14. [] then presented a new series of graphics (vugraphs) which gave an outstandingly improved visual picture of the gaps in coverage both inside and outside the bloc in terms of the needs for mapping and charting. (He promises to provide a set for your office.) For example, with regard to the Joint Operations Graphics (JOGs) at 1:250,000 scale, there are 1,978 quadrangles required to cover Africa. Of these, 584 are or are being completed by conventional means; there is satellite photo coverage for completing nearly all of 467 sheets; there is partial satellite coverage (roughly 20 to 80 percent) for each of 628 sheets; and no satellite or conventional coverage for 299 sheet areas. For Latin America, 1,202 JOG sheets are required. Of these, 256 are or are being completed by conventional means; satellite photographic coverage is available for 197 sheets; partial satellite photographic coverage is available for 253 sheets; and 496 sheet areas are without satellite or conventional photographic coverage.

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it is basically within the state-of-the-art and feasible if expenditures could be justified in contrast to other more conventional approaches.

16. Several expressed concern regarding the CONFIDENTIAL classification which the manual states must be placed on the 1:50,000 maps constructed from covert satellite photography, if suitable cover can not be developed. No answer was given; but I feel that, at the minimum, classification policy would be sufficiently flexible to meet urgent needs on a case-by-case basis.

Attachment

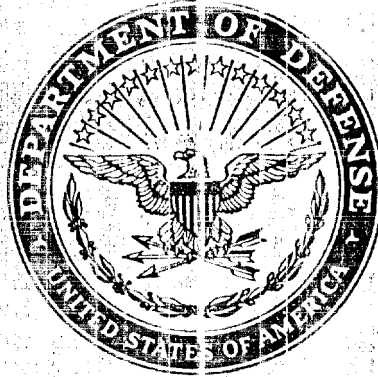
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DEFENSE INTELLIGENCE AGENCY



DOD GEODETIC-CARTOGRAPHIC- TARGET MATERIALS CONFERENCE (U)

29 OCT - 5 NOV 1969

CAMERON STATION
ALEXANDRIA, VIRGINIA



Name
Activity

CLASSIFICATION

CONTENTS

	<u>PAGE</u>
GENERAL INSTRUCTIONS.....	1
Cameron Station Layout & Traffic Flow in the Vicinity of Building #3.....	6
Cameron Station Layout Building #3.....	7
Cameron Station Post Restaurant & Officers' Club.....	8
 READY REFERENCE TELEPHONE NUMBERS	
DIAMC.....	9
DSA.....	10
 AGENDA	
Technical Portion	
Advanced Systems Office, DIAMC-5.....	11
Surveys & Basic Data Office, DIAMC-3.....	13
General Portion	
Product Requirements Office, DIAMC-1.....	16
Surveys & Basic Data Office, DIAMC-3.....	17
Plans & Programs Office, DIAMC-2.....	18
Cartography Office, DIAMC-4.....	19
Advanced Systems Office, DIAMC-5.....	20
 SOCIAL FUNCTIONS.....	12 & 16
 POST CONFERENCE ACTIVITIES	
Special Area Briefing.....	21
Problem Discussion Session with DIAMC.....	22

GENERAL INSTRUCTIONS
FOR
DOD GEODETIC, CARTOGRAPHIC AND TARGET MATERIALS
CONFERENCE
29 OCT - 5 NOV 1969

1. PLACE: Defense Supply Agency Headquarters Auditorium, located at the front end of Building 3, US Army Cameron Station, Duke Street, Alexandria, Va.
2. ATTENDANCE: Attendance limited to military and civilian government employees.
3. SECURITY CLEARANCE:
 - a. A SECRET clearance is required for the conference at Cameron Station and must be certified by the attendee's office.
 - b. A special area security clearance is required for the post conference Special Area Briefing scheduled 0900-1130, 6 November 1969, in Room 1D 883, Pentagon and verification forwarded DIA through the SAO channels. Conferees will be cleared at the DIA Operations Center entrance, Room 1D 914, ext 57500, and be issued a green visitor's pass. The pass will be displayed throughout the controlled area and be returned to Room 1D 914 upon leaving the area.
4. REGISTRATION: Registrations will be from 0830-0930, 29 October 1969 and 3 November 1969. Conferees not registering on either of the scheduled registration periods may do so on the initial day of attendance. During the registration process, the conferees will present their official identification card to the DIAMC receptionists, located in the lobby of the Cameron Station auditorium. After completing the registration, the cleared conferee will be issued a DIA identification card and name tag, and have the left hand stamped with the "code" of the day. The identification card and name tag will be returned to the receptionist at the conclusion of the conference, or after the last presentation attended. The daily opening and closing hours of the conference will be in the Agenda Schedule.
5. ADMITTANCE TO THE AUDITORIUM: After the registration process, the conferee is cleared to enter the auditorium. To re-enter the auditorium after any break during the day, the conferee will be validated by the security guard, located at each entrance to the auditorium, by placing his left hand under the ultraviolet light to reveal the "code" of the day.

To enter the auditorium at the beginning of each day after the registration day, the conferee must present the receptionist his DIA identification card. After verification is completed, the conferee's left hand will be stamped with the "code" of the day which will then allow entrance into the auditorium.

6. NAME TAGS: Name tags will be displayed throughout the conference.

7. TRANSPORTATION:

a. Special bus transportation will be provided from the ARVA Motel to Cameron Station and to the Pentagon, and return on the days the activity is scheduled at each location. Transportation will depart from the motel at 0800 for Cameron Station and at 0830 on the days of the post conference activities scheduled at the Pentagon. The return bus service from Cameron Station will be from in front of Building 3 at approximately 1645 and from the Pentagon, Stairwell A-7, at 1600.

b. DoD bus schedule from the Pentagon, Cameron Station and return:

(1) Route #13-B from C-2 Stairwell, Pentagon.

LV Pentagon 0930 through 1530 every hour on the half hour from C-2 Stairwell.

AR Cameron Station at 2nd and A Streets (across the street from Building 3) approximately 20 minutes later.

(2) Route #13-A from in front of the main entrance to Building 3, Cameron Station.

LV Cameron Station 0930 through 1630 every hour on the half hour.

AR Pentagon, C-2 Stairwell approximately 20 minutes later.

8. DIRECTIONS FOR THOSE DRIVING TO CAMERON STATION: Proceed southwest on U.S. Route 95 (Shirley Highway). Approximately 7 miles southwest of the Pentagon, turn right on East Alexandria Exit to Route 236 (Duke Street) and proceed east on Duke Street. Approximately one mile, take the right lane ramp leading onto Lake Road. After a short distance on Lake Road, turn right at the Post Entrance and remain on B Street and turn right on 3rd street. Building 3 is the first major building on your right. Use either the north or south entrances to the building.

9. PARKING AT CAMERON STATION: Local conferees driving will find nonreserved parking space very limited. The few reserved parking spaces allocated DIAMC are located in front of Building 3. The DIAMC Executive Officer will issue the passes to guest speakers, visiting dignitaries and designated recipients.

10. SEATING: Since no formal seating is arranged, conferees may sit anywhere in the auditorium. Microphones are located at the midpoint of rows 1, 4, 8 and 12 on both sides of the main aisle. Speakers are requested to utilize them in addressing the presenter with any questions, comments, etc., and are requested to identify themselves and state their organization.

11. CONFERENCE PRESENTATIONS: If the final paper of any agenda item was not previously submitted DIAMC prior to the beginning of the conference, the presenter should submit it to the DIAMC receptionist prior to its presentation.

12. STORAGE OF CLASSIFIED MATERIAL: Overnight file cabinet storage will be available for material classified up to and including SECRET. Special arrangements must be made for the storage of material larger than legal size. Request conferees contact the DIAMC receptionist at either entrance to the auditorium for storage of any classified document.

13. AVAILABLE PROJECTION FACILITIES: Only a 35mm projector for paper mounted slides and a 8" x 10" overhead front view projector is available. A DIAMC projectionist will be available to operate the projection facilities. Request the slides and/or view-graphs be submitted to the projectionist, who will be located by the projection equipment, well in advance of the scheduled presentation.

14. COFFEE BREAKS: Coffee breaks are scheduled as indicated in the Agenda. Coffee and light refreshments may be obtained at the Snack Bar in Building 3 and 4 (see Cameron Station Layout and Traffic Flow Map).

15. LUNCH: Lunch periods are scheduled as indicated on the Agenda. The Cameron Station Post Restaurant is located in Building 7, directly to the rear of Building 3. The operating hours and designated available rooms are:

Colonial Room (Cafeteria - general use)	
Breakfast	0700-0900
Sandwich Line	0900-1430
Hot Line	1100-1415
Blue Room (Officers & GS-12 & above)	1130-1330
(table service)	
Minuteman Room (Col's & GS-15 & above)	1130-1330
(table service)	

16. CAMERON STATION OFFICERS' CLUB COCKTAIL LOUNGE OPERATION: The cocktail lounge is located in Building 7 and is adjacent to the Post Restaurant. The lounge operating hours are:

Monday	1100-1800
Tues-Wed-Thurs	1100-2300
Friday	1100-0130
Saturday	1400-0130

Officers' Club buffet luncheons (located in the cocktail lounge):

Mon-Fri	1130-1330
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17. ORDERS/TRAVEL AND NON-AVAILABILITY OF QUARTERS CERTIFICATES:

Conferees requiring endorsement of orders, travel information, etc. will contact the DIAMC receptionist located in the lobby just outside the conference auditorium.

18. SPECIAL EVENTS:

a. Concurrent Conference Activity:

- (1) 27-30 Oct 69 - The Target Material Working Group Meeting scheduled for designated conferees in Room 1E 801, Conference Room #2, Pentagon.
- (2) 29 Oct 69 - A Social Function (cocktail) is programmed at the Cameron Station Officers' Club at 1730 to 1830.
- (3) 3 Nov 69 - A Social Function (cocktail & buffet) is programmed at the Cameron Station Officers' Club at 1630 to 1900.

b. Post Conference Activity:

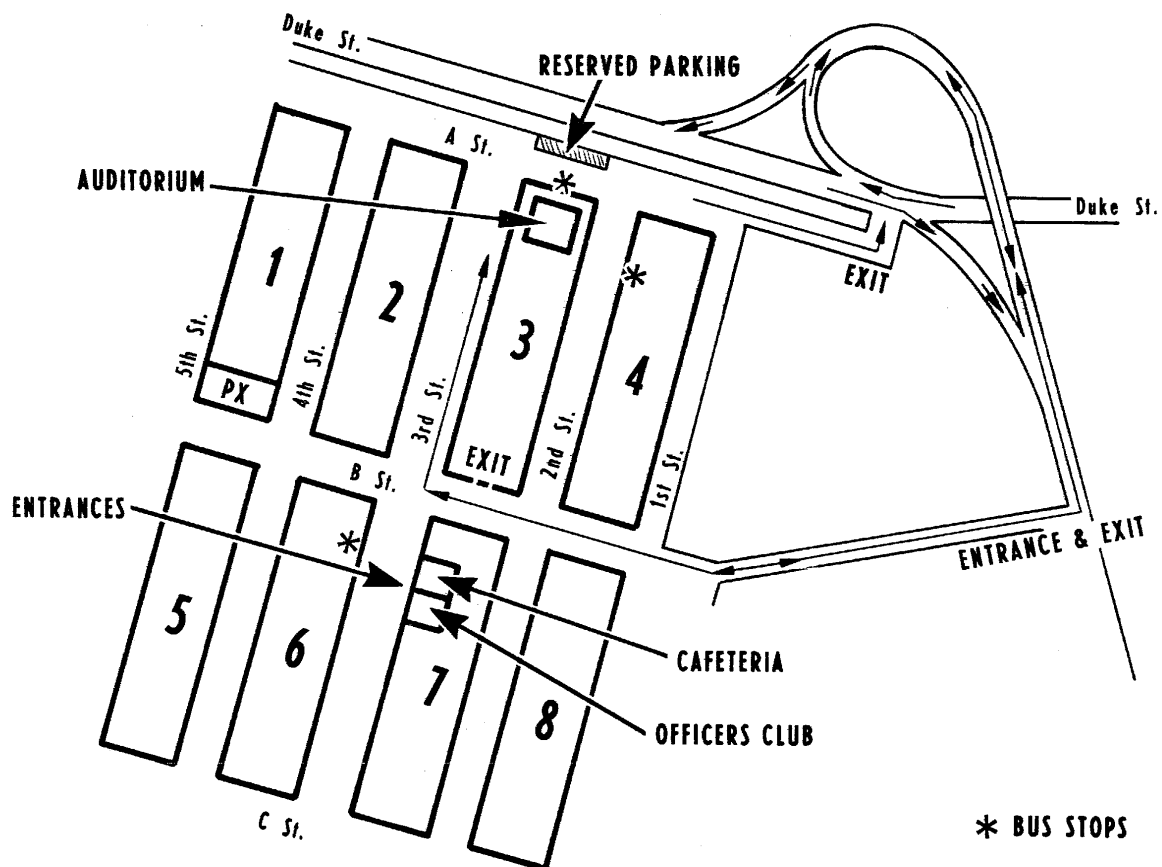
- (1) 6 Nov 69 - Special Area Briefing scheduled for designated conferees 0900-1130 in Room 1D 883, DIA Operations Center, Pentagon.
- (2) 6-7 Nov 69 - A Problem Discussion Session with the DIAMC Offices scheduled for conferees from the U&S Commands.

19. DRESS: Conferees are authorized civilian attire while attending conference sessions. If uniforms are worn, winter uniforms are mandatory for all Services.

20. POST EXCHANGE: The PX is located in Building 1 (see Cameron Station Layout and Traffic Flow Map).

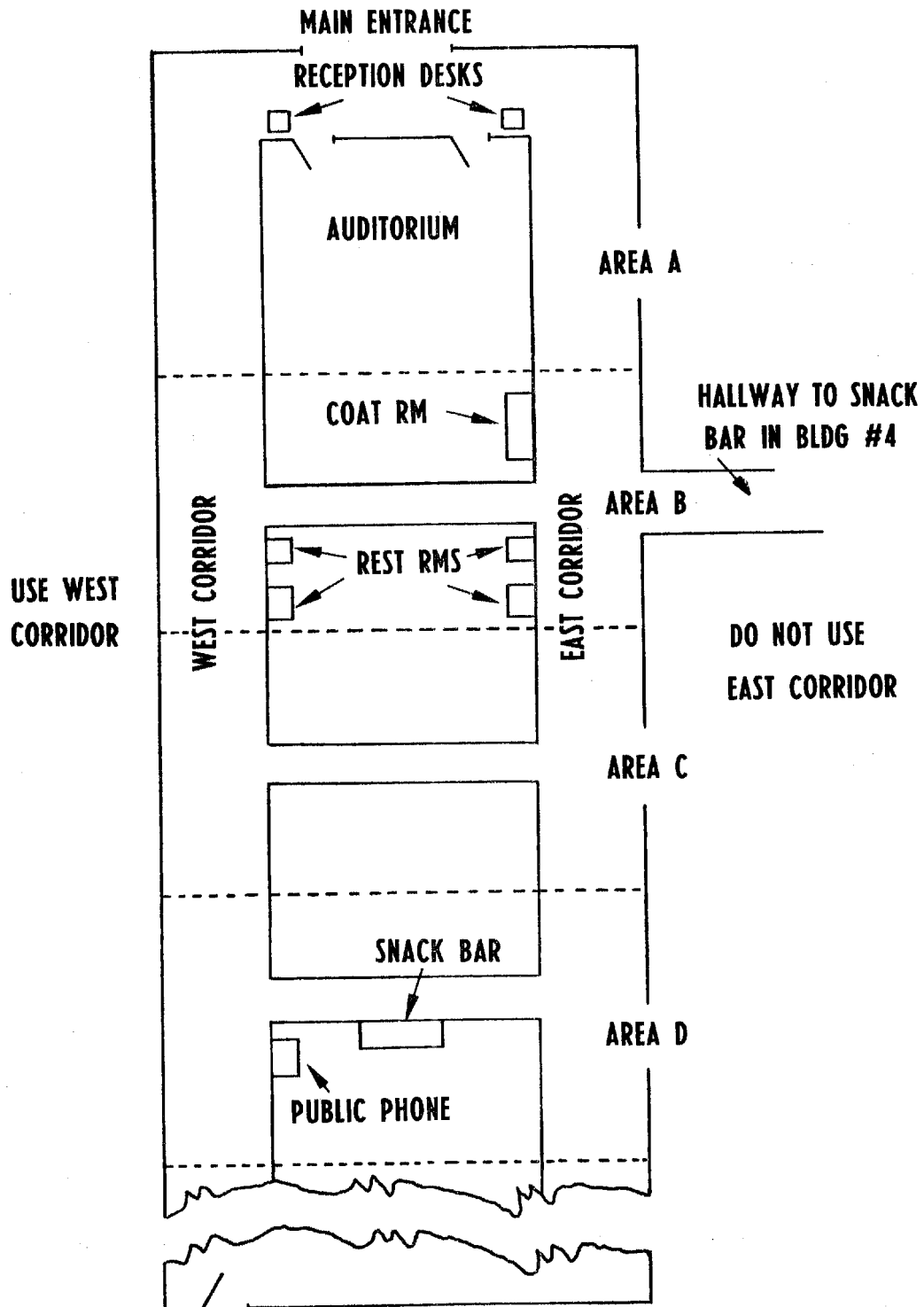
21. BANKING: The Alexandria National Bank is located in the Shirley Duke Shopping Center diagonally across Duke Street from Gate 1.

CAMERON STATION LAYOUT AND TRAFFIC FLOW IN THE VICINITY OF BLDG 3

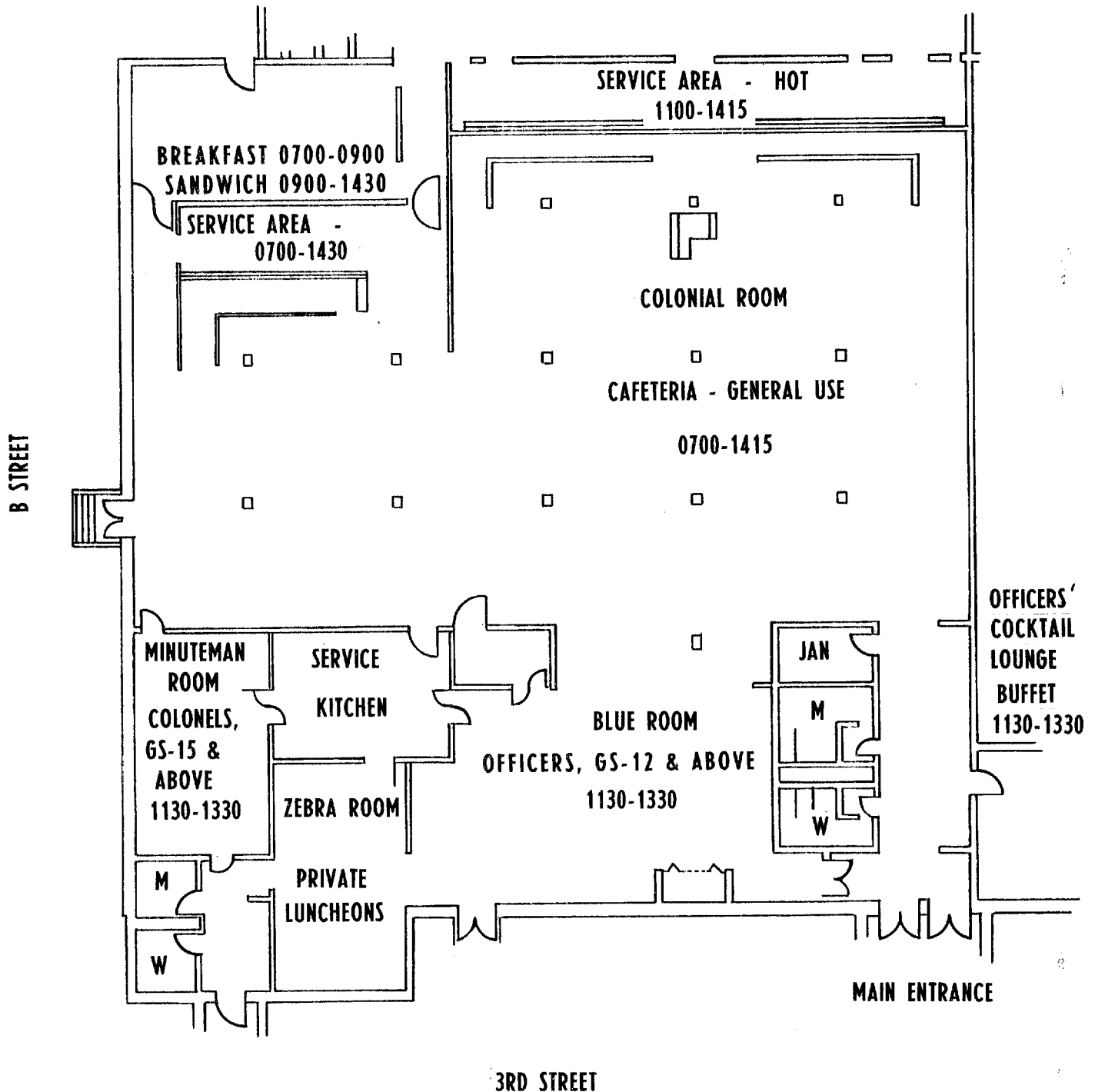


CAMERON STATION

LAYOUT BUILDING #3



CAMERON STATION POST RESTAURANT & OFFICERS' CLUB



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AGENDADOD GEODETIC, CARTOGRAPHIC & TARGET MATERIALS CONFERENCE29 OCTOBER - 5 NOVEMBER 1969

DATE/TIME	ITEM	SUBJECT	TIME	TOTAL TIME
Wednesday 29 Oct 69				
0830	1	Registration	1:00	1:00
0930	2	Introduction and Opening Remarks [redacted] USAF Assistant Director, DIA, for Mapping, Charting and Geodesy	:10	1:10
0940	3	Guest Speaker VADM Vincent P. de Poix, USN, Dep Dir of Defense Research & Engineering (Admin Evaluation & Management) <u>ADVANCED SYSTEMS OFFICE, DIAMC-5</u>	:30	1:40
1010	4	Introduction [redacted] Chief, Advanced Systems Office, DIAMC-5	:05	1:45
1015	5	INTEGRATED DATA BANK Mr. O.W. Williams, AFCRL, Moderator	3:00	4:45
	5a	Integrated Topographic Data System Mr. Marvin Gast, ETL		
	5b	Integrated Data Banks - Now or Later? Mr. N.E. Johnson, NAVOCEANO Mr. A.C. Holzweissig, NAVOCEANO Miss Evelyn Pruitt, ONR		
	5c	How a Manager Looks at an Integrated Data Bank of MC&G Materials Mr. Thomas C. Finnie, ACIC COFFEE BREAK - at the discretion of the Moderator		
1315	6	LUNCH	1:00	5:45

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DATE/TIME	ITEM	SUBJECT	TIME	TOTAL TIME
29 Oct 69 (cont'd) 1415	7	<u>MULTI-SPECTRAL PHOTOGRAPHY</u> Dr. D. O'Connor, ETL, Moderator	1:30	7:15
	7a	Applications of Reconnaissance Concepts to Mapping Problems Mr. J. Alfred Stringham, RADC Dr. Richard S. Williams, Jr., AFCRL		
	7b	Potential Application of Multi-Spectral Photography for Oceanography Dr. Vincent E. Noble, NAVOCEANO		
	7c	Multi-Spectral Remote Sensing for Engineer Construction Materials Mr. Donald G. Orr, ETL		
1545	8	<u>DATA COMPACTION AND DATA TRANSMISSION</u> Mr. C. Crandall, NAVOCEANO, Moderator	1:30	8:45
	8a	Defense Satellite Communications System - Phase II (High Speed Digital Transmission) Mr. Willis D. DeHart, DCS		
	8b	The Joint Services In-Flight Data Transmission System (JIFDATS) MAJ Donald S. Kendall, USA, JIFDATS		
	8c	Target Positioning and Charting with High Resolution Imagery Transmission System <div style="border: 1px solid black; height: 1.2em; width: 250px; margin: 5px 0;"></div>		
	8d	Data Transmission and a Look at the Future Dr. R. Langelier, CNO-OP94		
1715	9-10	SOCIAL FUNCTION	1:00	9:45

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DATE/TIME	ITEM	SUBJECT	TIME	TOTAL TIME
Thursday 30 Oct 69 0830		<u>SURVEYS & BASIC DATA OFFICE, DIAMC-3</u>		
	11	Introduction [redacted] USAF, Chief, Surveys & Basic Data Office, DIAMC-3	:10	:10
0840	12	<u>GLOBAL GRAVITY MODELS</u> Mr. Richard Anderle, NWL, Moderator	3:00	3:10
	12a	Data Contributions to the Determina- tion of the Earth's Gravity Field Mr. Richard J. Anderle, NWL		
	12b	Optical/Doppler Gravity Models Dr. A. Mancini, ETL		
	12c	Analysis of Geodetic Satellite Tracking Data to Determine Tesseral Harmonics of the Earth's Gravity Field [redacted]		
	12d	An ACIC Global Gravity Anomaly Field from Terrestrial Data (GLOB GRAVI) [redacted]		
	12e	A Comparison of Earth Gravitational Models [redacted]		
	12f	Effects of Gravity Model Un- certainties on Satellite Orbits Mr. Von Bun, NASA		
		COFFEE BREAK - at the discretion of the Moderator	:20	3:30
1200	13	LUNCH	1:00	4:30
1300	14	<u>FUTURE APPLICATIONS CONCEPTS</u> Dr. C. Cohen, NWL, Moderator	2:15	6:45
	14a	Geodetic Feasibility of Long Base Line Interferometry Dr. Randall W. Smith, TOPOCOM		

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DATE/TIME	ITEM	SUBJECT	TIME	TOTAL TIME
<u>30 Oct 69</u> (cont'd)	14b	Gradiometer for Determination of Ocean Gravity Mr. I. R. Gros, NRL		
	14c	Satellite Altimetry Messrs A. Shapiro and B. Yaplee, NRL		
	14d	Geodetic Applications of Timation Satellites Mr. R. Easton, NRL		
	14e	The 621-B Navigational Satellites and Geodetic Implication [REDACTED] SAMSO		
	15	COFFEE BREAK - must be taken no later than 1445	:15	7:00
1530	16	<u>SATELLITE NETWORKS</u> Mr. E. Ritscheidt, TOPOCOM, Moderator	2:00	9:00
	16a	A New Generation of Data Reduction and Analysis Method for the World Wide Geometric Triangulation Program Dr. H. Schmid, USC&GS		
	16b	Analysis of the SECOR Equatorial Network Dr. Randall W. Smith, TOPOCOM		
	16c	GEOS Station Position Solutions Comparisons Mr. J. Berbert, NASA/GSFC		
	16d	The Uses and Limitations of Satellite Geodesy in Specific Real Life Geodetic Problems Mrs. Irene Fischer, TOPOCOM		
<u>Friday</u> <u>31 Oct 69</u> 0830	17	<u>LAUNCH REGION GRAVITY MODELS</u> [REDACTED] Moderator	3:00	3:00

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DATE/TIME	ITEM	SUBJECT	TIME	TOTAL TIME
31 Oct 69 (cont'd)	17a	Gravity Requirements for a LRGM [REDACTED]		
	17b	An LRGM Using the Hirvonen/Moritz Method [REDACTED]		
	17c	Development of an LRGM for Minute Man III [REDACTED] SAMSO		
	17d	Polaris/Poseidon Prototype Deflection of Vertical Products Mr. John Hankins, NAVOCEANO		
		COFFEE BREAK - at the discretion of the Moderator	:20	3:20
1150	18	LUNCH	1:00	4:20
1250	19	<u>INSTRUMENTATION AND DATA</u> Mr. Bela Szabo, AFCRL, Moderator	2:15	6:35
	19a	AFCRL'S Absolute Gravity Measurements and their Contributions to System Accuracy Mr. Bela Szabo, AFCRL		
	19b	Smoothing of Aerial Gravity Measurements Mr. David Anthony, AFCRL		
	19c	Improvement of Marine Gravimeters Mr. M. Smalet, NAVOCEANO		
		COFFEE BREAK - must be taken no later than 1445	:15	6:50
1520	20	<u>PHOTOGRAMMETRIC CONTROL</u> Mr. L. Gambino, ETL, Moderator	2:00	8:50
	20a	Photogrammetric Evaluation of AN/USQ28 SHIRAN-Controlled Aerial Photography Mr. F. Masek, ETL		

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DATE/TIME	ITEM	SUBJECT	TIME	TOTAL TIME	
<u>31 Oct 69</u> (cont'd)	20b	HIRAN/LORAN Systematic Error Model Mr. J. Walker, TOPOCOM			
	20c	The Simultaneous Adjustment of One Thousands Photographs Messrs J. Callander and J. Del Vecchio, RADC			
	20d	The Use of Kroll's Method For Computing Geodetic Distances from HIRAN Observations Mr. Jerome J. Kurkowski, TOPOCOM			
<u>Monday</u> <u>3 Nov 69</u>					
0830	21	Registration	1:00	1:00	
0930	22	Introduction & Opening Remarks [REDACTED], USAF Assistant Director, DIA, for Mapping, Charting and Geodesy	:10	1:10	STAT
0940	23	Guest Speaker LTG Donald V. Bennett, USA, Director, Defense Intelligence Agency	:30	1:40	
1010	24	COFFEE BREAK	:20	2:00	
		PRODUCT REQUIREMENTS OFFICE, DIAMC-1			
1030	25	Introduction [REDACTED] Acting Chief Product Requirements Off., DIAMC-1	:10	2:10	STAT
1040	26	Product Requirements [REDACTED] DIAMC-1	:30	2:40	STAT
1110	27	DoD Metric Study Under PL 90-472 [REDACTED] USA, DIAMC-1	:20	3:00	STAT
1130	28	TACAN Overprint Special SEA Tactical VFR Chart LTC Glenn F. Howerton, CINCPAC	:10	3:10	

DATE/TIME	ITEM	SUBJECT	TIME	TOTAL TIME
3 Nov 69 (cont'd) 1140	29	The Staff Study - A Useful Tool for Defining MC&G Requirements CDR Scott E. Drummond, USN, CINCPAC	:15	3:25
1155	30	Digital Charting for Future Tactical Aircraft and Missiles [REDACTED]	:25	3:50
1220	31	LUNCH	1:00	4:50
1320	32	Tercom Matrices for Terminal Guidance of Strategic Systems [REDACTED] <u>SURVEYS & BASIC DATA OFFICE, DIAMC-3</u>	:20	5:10
1340	33	Introduction [REDACTED] USAF Chief, Surveys & Basic Data Office, DIAMC-3	:15	5:25
	34	<u>SUMMARY OF FY69 OPERATIONAL SURVEYS</u>		
		<u>Army</u>		
1355	34a	Satellite Geodesy Mr. J. Bernard, TOPOCOM	:15	5:40
1410	34b	Other Geodetic (IAGS, Military & Gravity) Mr. R. Yater, TOPOCOM	:15	5:55
		<u>Navy</u>		
1425	34c	Geodetic Satellite Mr. J. Kay, NAVAIRSYSCOM	:15	6:10
1440	34d	Navy Survey Operations CDR Martin Ruch, USN, NAVOCEANO	:15	6:25
1455	35	COFFEE BREAK	:20	6:45
		<u>Air Force</u>		
1515	34e	Ground and Aerial Surveys LTC James H. St Clair, ACGS	:40	7:25

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DATE/TIME	ITEM	SUBJECT	TIME	TOTAL TIME
<u>3 Nov 69</u> (cont'd)				
1555	36	G&G Program Forecast [REDACTED] DIAMC-3B	:30	7:55
1625	37	SOCIAL FUNCTION	2:00	
<u>Tuesday</u> <u>4 Nov 69</u>		<u>PLANS & PROGRAMS OFFICE, DIAMC-2</u>		
0830	38	Introduction [REDACTED] Acting Chief, Plans & Programs Office, DIAMC-2	:05	:05
0835	39	Review & Decision-Making Process for Intelligence Resources Allocation [REDACTED] DIAMC-2	:15	:20
0850	40	Status of International Agreements [REDACTED] DIAMC-2A	:15	:35
0905	41	USATOPCOM Reorganization COL Stanley J. Hathorn, USA, TOPOCOM	:15	:50
0920	42	ACIC Implementation Plan for Advanced Cartographic System [REDACTED]	:20	1:10
0940	43	COFFEE BREAK	:20	1:30
	44	<u>MC&G SCHOOL ACTIVITIES</u>		
		<u>Army</u>	:25	1:55
1000	44a	Topographic Skill Training at the U.S. Army Engineer School COL Colin Carter, USA, TOPOCOM		
1025	44b	Formal Graduate Schooling in MC&G Sciences for Army Officer Personnel MAJ Don F. Svendsen, USA, TOPOCOM	:15	2:10
1040	44c	U.S. Army Topographic Command Training Center Operations and Employee University Participation Mr. Gilbert Monck, TOPOCOM	:20	2:30

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DATE/TIME	ITEM	SUBJECT	TIME	TOTAL TIME
4 Nov 69 (cont'd)				
1100	44d	<u>Navy</u> NAVOCEANO'S Career Development Program Mr. E. Clay Joseph, NAVOCEANO	:15	2:45
1115	44e	Technical Training in Hydrographic Engineering at the US Naval Oceanographic Office Mr. Christie K. Snyder, Jr., NAVOCEANO	:15	3:00
1130	44f	<u>Air Force</u> Report on Formal School Operations to Train Personnel in MC&G Sciences [REDACTED]	:30	3:30
1200	44g	Report on Formal Geodetic Training LTC James H. St Clair, ACGS	:15	3:45
1215	45	LUNCH <u>CARTOGRAPHY OFFICE, DIAMC-4</u>	1:00	4:45
1315	46	Introduction [REDACTED] USA, Chief Cartography Office, DIAMC-4	:10	4:55
1325	47	Benefits and Problems of International Cooperative Production Programs [REDACTED] USA, Chief Cartography Office, DIAMC-4	:40	5:35
1405	48	COFFEE BREAK	:20	5:55
	49	<u>MILITARY DEPARTMENTS MC&G PRODUCTION AGENCY REPORT</u>		
1425	49a	Army - COL David Hutchinson, TOPOCOM	:30	6:25
1455	49b	Navy - CAPT Mark Macomber, NAVOCEANO	:30	6:55
1525	49c	Air Force - [REDACTED] ACIC	:30	7:25
1555	50	DIA Area Requirements & Product Status System (ARAPS) [REDACTED] DIAMC-4	:30	7:55

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DATE/TIME	ITEM	SUBJECT	TIME	TOTAL TIME	
4 Nov 69 (cont'd) 1625	51	Target Material Programs Status [REDACTED], DIAMC-4B	:20	8:15	STAT
Wednesday 5 Nov 69 0830	52	Report of the Target Materials Working Group Meeting [REDACTED] USAF, DIAMC-4B	:30	:30	STAT
0900	53	USARPAC Map Supply System COL Henry Romanek, USARPAC	:20	:50	
0920	54	COFFEE BREAK <u>ADVANCED SYSTEMS OFFICE, DIAMC-5</u>	:20	1:10	
0940	55	Introduction [REDACTED] USA, Chief Advanced Systems Office, DIAMC-5	:10	1:20	STAT
0950	56	Mapping From Color Photography COL J.W. Park, Jr., TOPOCOM	:20	1:40	
1010	57	Photogrammetric Applications to Field Artillery Mr. Eugene D. Griffin, USAETL	:15	1:55	
1025	58	Field Army Surveying System Mr. T. Flowe, USAETL	:20	2:15	
1045	59	Concept Formulation of the Hydro- graphic Survey Ship System Mr. Steward B. Nelson, OCEANAV	:15	2:30	
1100	60	<u>ADVANCED CARTOGRAPHY</u>	1:00	3:30	
	60a	Digitizing Cartographic and Terrain Data at USAETL Mr. Howard Carr, USAETL			
	60b	Advanced Cartography Mr. Robert L. Wheatley, NAVOCEANO			
	60c	Mr. Joseph Diello, USAF-RADC			

DATE/TIME	ITEM	SUBJECT	TIME	TOTAL TIME
<u>5 Nov 69</u> (cont'd)				
1200	61	LUNCH	1:00	4:30
1300	62	Experimental Lenticular Photomap Mr. Lynn R. Wickland, TOPOCOM	:10	4:40
1310	63	Military Geographic Analysis System Dr. Kenneth R. Kothe, USAETL	:25	5:05
1335	64	<u>DOD THREE PHASE ALL WEATHER MAPPING SYSTEM</u>	:35	5:40
	64a	Phase I, Mr. F. Treadwell, TOPOCOM		
	64b	Phase II, LtCol R.K. Burkard, AFRDR		
	64c	Phase III, Mr. K. Yoritomo, USAETL		
	64d	Interface Mr. F. Treadwell, TOPOCOM		
1410	65	COFFEE BREAK	:30	6:10
1440	66	Conference Closure [REDACTED], USAF Assistant Director, DIA, for Mapping, Charting and Geodesy	:30	6:40
<u>Thursday</u> <u>6 Nov 69</u>		<u>POST CONFERENCE ACTIVITY</u>		
0900	67	Special Area Briefing, Rm 1D 883, DIA Operations Center, Pentagon [REDACTED] Technical Advisor, DIAMC	2:30	2:30
1130	68	LUNCH	1:00	3:50
1230	69	Problem Discussion Session with DIAMC Offices for Conferees from the U&S Commands (timetable atchd)	4:30	8:00

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PROBLEM DISCUSSION SESSION - TIMETABLE

6 Nov 69	MC-1	MC-2	MC-3	MC-4	MC-5
EUCOM Col Hritzko	1230-1330	1410-1510	1515-1600	1605-1700	1335-1405
CINCPAC CDR Drummond	1620-1700	1300-1400	1405-1425	1430-1450	1455-1615
CINCPAC LTC Hill	1405-1505			1300-1400	
CINCPACAF Maj Ring				1500-1600	
CINCSRIKE LCDR Campbell		1515-1530	1300-1320		1410-1425
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7 Nov 69					
CINCLANT Maj Lee		0900-1000	1005-1205		

CONFERENCE NOTES

Item: _____ Subject: _____ Speaker: _____

Item: _____ Subject: _____ Speaker: _____

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